

Quomptis = Q.

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Bacon 1900

April 1900 to March 1901

Started with 8 colonies
April 1900.

33 colonies

March 1901 25 colonies

April 1901 28 colonies

May 1901 4 colonies

June 1901 28 colonies

July 1901 28 colonies

with 67 colonies

Total colonies 1900 1901

March 1901 5

April 1901 69

May 1901 28, 1901

June 1901

Lained 1900 1901

1125 1901

1133 #1 1901 @ 147 1901 991

444 #2 " @ 127 1901 333

Grand Total of 2449

Season of 1900. April ¹⁹⁰⁰ to March ¹⁹⁰¹

- No. 1. Lost hive, April 20 1879
hive - 30 No. 1 sections & 16
sections. Also 10 1/4 lbs
extracted honey.
1. Lost hive June 4, 1879
- 30 No. 1 sections & 19 No.
2 sections, also 7 1/2 lbs of extracted
honey. - Swarmed 2 times
2. Oct. 11 1879. Gave 42 No.
1 sections. 22 No. 2 sections;
also 8 1/4 lbs of extracted honey.
Swarmed 1 time.
3. April 13 1900. Gave 20 No. 1
sections & 19 No. 2 sections,
also 16 1/4 lbs of extracted
honey. - Swarmed 1 time

9
hives

4

April 9 1900. - 2 bees in section
& 10 in section. also 12
of honey - 10 in section.

5

June 1 1900 - 2 in 50
sections & 10 in sections
also 18 - 10 in section
- 10 in section 17 in
- 10 in section # 10 10 & 10

6

April 30 1900 at 7.30 & 10
Hives - 10 in section - from #41
- 10 in section 33 holes - 15 holes
& 10 in section. also 18 - 10 in section
- 10 in section 17 in.

7

June 22 1900 at 1.30 P.M.
- 10 in section from #13. - 10 in section
- 10 in section 10 in section
- 20 in section 10 in section
- 10 in section 17 in.

8 Aug. 5 1900. - I arranged
#25 at 1.15 P.M. Gave 15
No 1 sect. & 3 No 2 sections,
also 18 $\frac{1}{4}$ lb of honey.

7 Aug. 27 1900. - Gave 9 $\frac{1}{4}$ lb
of honey. I arrived 1 time

10 Sept 8 1900. - I arrived in
#360 11.45 A.M. - Gave 4
No 1 sect. And 20 $\frac{1}{4}$ lb of
honey.

11 May 17 1900 - Gave 31 No 1
sect & 25 No 2 sections,
also 10 $\frac{1}{4}$ lb of honey.

12 Nov 6 1899 - Gave 40 No 1
& 11 No 2 sections, also 10 $\frac{1}{4}$
lb of honey. I arrived 1
time

13 April 5 1900 - gave 12 No. 1 & 5
No. 2 sections, also $18\frac{1}{2}$ lbs of
honey. - Drained 1 time.

14 June 5 1900. - Drained from
#40 at 10 A.M. gave 9 No. 1
& 14 No. 2 sections, also $22\frac{1}{4}$
lbs of honey. - Drained
time.

15 June 11 1900. - Drained from
#22 at 11 A.M. - gave 9 No. 1
& 13 No. 2 sections, also $22\frac{1}{4}$
lbs of honey. - Drained
1 time.

16 June 23 1900. - gave $5\frac{1}{4}$ lbs
of extracted honey.

17 Aug. 29 1900. Gave 18 lbs
of honey.

18 Aug. 31 1900 Gave $6\frac{3}{4}$ lbs
of honey.

- 19 Empty. 1900
- 20 May. 18 1900. Swarm from #12 at 12 h. Gave 104 No 1 & 2 No 2 sections, also $15\frac{3}{4}$ lbs of honey. Swarmed 1 time.
- 21 Jan. 1 1899. Gave 54 No 1 & 13 No 2 sections also $23\frac{1}{4}$ lbs of honey. Swarmed 1 time.
- 22 Apr. 11 1900 - gave 34 No 1 & 31 No 2 sections. also 5 lbs of honey. Swarmed 1 time.
- 23 May 20 1900. Swarm from #31 at 10. A. M. Gave 24 No 1 & 14 No 2 sections, also $18\frac{3}{4}$ lbs of honey. Swarmed 1 time.

- 24 June 7 1900. Gave 30 No 1 &
also 24 $\frac{3}{4}$ lb of honey
- 25 April 27 1900. Gave 30 No. 1
& 10 No 2 sections also 18 $\frac{1}{2}$
lb of honey. I warmed
line.
- 26 July 3 1900. I warmed
No 3 at 1.45 P.M. Gave 30 No. 1
also 24 $\frac{3}{4}$ lb of honey.
- 27 July 11 1900. Gave 4 No 1 & 6
No 2 sections also 24 lb of
honey. I warmed 1 time.
- 28 July 1 1900. Gave 28 No 1 &
5 No 2 sections, also 24 $\frac{3}{4}$ lb
of honey.
- 29 Aug 28 1900. I warmed from
#27 at 11 A.M. Gave 3 No 1 & 3
No 2 sections also 10 lb
of honey.

30 May 28 1900 Gave 38 No 1
& 13 No 2 sections also 24 $\frac{1}{2}$
lbs of honey. swarmed
1 time

31 June 10 1899 Gave 1 No 1
also 9 $\frac{3}{4}$ lbs of honey
swarmed 1 time.

32. April 9 1900. Gave 19 No 1
+ 9 No 2 sections, also 6 $\frac{3}{4}$
lbs of honey. swarmed 3
times. The time was
comparatively less than
them. Dec. 15 1900

32.
 $\frac{3}{4}$ Put a hive of bees on stand
Dec 26 1900. Gave 48
lbs of honey. The time
from then to the end.

Mr. Levi W. Mangel.
Dept. Biology.
Boys High School.
Reading, Pa.

wants specimens of *Amazilia* *epidopta*
and *Tyrannus carolinensis*, with all
any. Please if you may have.
W. H. Mangel, a collector of birds
from the U. S. ~~States~~, and other
and other birds.

2. 11. 11. 15.

38 July 20 1899. I arm from #23 at 10.30 A.M. Gave 44 No 1 & 21 sections, also 23 1/4 lb of honey. I warmed 1 time.

39 July 11, 1910. Gave 44 No 1 & 21 sections, also 23 1/4 lb of honey.

40 Sept. 1899. Gave 18 No 1 & 4 No 21 sections, also 23 1/4 lb of honey. I warmed 1 time.

41 Dec 6 1899. I arm from #21 at P.M. Gave 44 No 1 & 21 sections, also 26 lb of honey. I warmed 2 times.

42 May 2 1910. Gave 10 lb of honey.

43 June 2 1910. I arm from #2 at 10.30 A.M. Gave 44 No 1 & 21 sections, also 23 1/4 lb of honey.

44 June 27 1900 I am from
#6 at 1.3 P.M. I have 5
2 a 22 1/4 lb of honey.

45 I pt, 11 I am from
#4 at 11 A.M. I have 6 lbs
of honey.

46 I pt. > 120 I am from
#41 at 1.45 P.M. I have 1 hot
2 10 hot actions, also 2 1/3 lb
of honey.

47 I pt > 1,000 I am from
#... at 1.55 P.M. I have 2 hot
2 8 hot actions also 1 1/2 lb
of honey.

Phaeornis obsura.

Hawaii

No 1

Oman

Known as the Whistlingbird or Thrush.

Color gray brown. Length 7 inches. Was in full song when shot. Found in #4 field. Harris Ranch. Time about 11 A.M. July 3. 1903. Breeding, as Ovaries large. Male. Elevation about 900 feet.

Order. Passeres. - Perching Birds

Family, Turdidae - Thrushes etc.

Genus - Phaeornis

Phaenurus obscura. Hawaii. No. 2.
Native name - O man.

Color - gray brown. Length 7 inches. Was in full song when shot. Found in # 3 field Horner's Ranch. Time, 10.30 A.M. July 3. 1903. Moulting, not breeding, ovaries very small. Male. Elevation about 1950 feet.

Chlorodrepanis Virens

Hawaii

No. 3.

Native Name - Auakili

Color. Olive green to bright yellow-green. Curved bill. Black face. Was in full song when shot. Found in #3 field, Louis Ranch, near old ranch road. Adult male, almost in perfect plumage. Length 4.5 in. Food at this time of the year - green or the armyworm. Elevation 2000 feet.

Phaenurus obscura.

Hawaii

No. 4.

Native Name - *Ono*.

Color, gray brown. Length 7.1 inches. Was in full song when shot. Found in coffee field, near Hainu-ye-ye, Hon. is. Date July. 3. 1903. Female, not breeding. Elevation about 3,500 feet.

Chlorodrepanis Virens

Hawaii

No. 5.

Native Name - Akahi.

Color, pale yellow green. Length 4.25 inches. Curved
bill, $\frac{1}{2}$ inch long. Found in # 4 field, Homer's Ranch,
July 3, 1903. Not breeding. Female. Food at this
time of the year - green or the armyworm.
Elevation about 1900 feet.

Amastone Sanguinea Hawaii No 6
Native Name - Apapane

Color, red and black, with black feet, legs and bill.
Length 5.375 inches. Found ~~above~~ stone fence, 9,000 feet
Homer's Ranch, Dec. 26. 1902. Male.

Phasiempis sandwicensis

Hawaii

No. 7.

Native Name - Elepaio.

Color, brown and white. Length 5.50 inches. Moulted.
Found in # 4 field at H. A. S. Ranch, May 3, 1903. Was in full
song when shot. Young female, not breeding. Elevation
about 2250 feet. X

No. 8. Chasiempis samuelensis
Native name. "Elipao"

Hawaii

Color, brown on back, dark brown on sides, white on
the breast. Length 5.3 inches. Found along upper forest
edge field, Horner's Ranch. Elevation about 4000 feet.
Female, about 1/2 years old. Ovaries small, not breeding.

X

Chasimopsis Sandwichensis Hawaii No 9.
Native name. Elepaio

Color,

Length 6.2 inches. Found in new part of
the lower end of cornfield, Warner Ranch
Honolulu, Hawaii at 4000 foot elevation on
July 24. 1903 Adult female, breeding. Ovaries very
large, and some eggs almost fully developed.
Food, moths, worms, flies etc. X

No 10. Phaeornis obscura.

Hawaii

Native Name - O mau

or Thrush.

Color, gray brown, Length 7.6 inches ~~Female~~.
November, 31, 1902. above Paamilo Homesteads, Ham-
akua, Hawaii. Male. Collected on Homers Ranch.
Elevation 3500 feet.

Chlorodrepanis Virens

Hawaii

No. 11.

Native Name - Amakihi.

Color, light yellow green. Curved bill. Length 4.3 inches. Found along upper fence of coffee field, Morris Ranch, July 4, 1903, at 4.30 P.M. Adult female, not breeding. Elevation about 4000 feet.

No. 12.

Chlorodrepanis Virens.

Hawaii

Native Name - Amakihi.

Color, bright yellow and dark green. Length
inches. Found in center of coffee field, Homer's Ranch
July 4. 1903. at 5 P. M. Elevation 3,750 feet. Food - green
caterpillars or army worms. Adult male, almost
perfect plumage. Was in full song when shot.

Length 5.75 inches, Wing 3.13 inches Tail 2.46 in
 Tarsus .70 inches, Toe .66 inches, Culmen .45 inches
 Depth of beak .36 inches, Distance from tip of wing to
 tip of tail 7.50 inches.

Hawaii

No. 14. Chlorodrepanis Virens
Native Name - Amakihi

Color, olive green yellow. Length 4.65 inches. Found
above Puulo Hamsteads, Hamakua, Hawaii, Dec.
28, 1902. Elevation about 3500 feet. Adult male.

Oreomyza maculata

Oahu

No 15.

Native - name - Amakihi.

Color, green. Straight bill. Length 4.5 inches. Found
on the island of Oahu, in the Wai'aleale mts. on Saddle
Ranch, in Halemanu gulch, at base of Koolo, May 17, 1909.
Elevation about 3400 feet. Food, wood worms and bugs.
Female.

No. 16. Oreomyza Maculata

Oahu

Native Name - Anakihi

Color, green. Length, 4.375 inches. Found on Lihue
Ranch, Waiman Mountains, at base of Kaala, Mar.
31, 1903. Elevation 3400 feet. Female.

Oreomyza maculata

Oahu

No. 17

Native name - Amakihi

Color, green. Length 7.80 inches. Found on Lilihua Ranch, in Waianae mountains, at base of Keala, April 3. 03. Elevation 3400 feet. Female. Straight bill. Prepared by L. A. Miller and presented by him to C. E. B.

Oahu

No. 18. Oncomyza maculata.

Native Name - Amikiki.

leolo, quinn. Length 4 inches Found on Leilohua
Ranch, in the Waianae mountains at base of Maala,
April 2, 1903. Elevation 3400 feet. Female.

Oreomyza maculata

Oahu

No 19

Native name - Amakihi.

Color, green. Found on Lihilua Ranch, in Waianae mountains at base of Kaula April 2. 1903. Female. Elevation 3500 feet.

No. 20. Oreomyza Maculata Oahu
Native Name - Amakihi

Color, yellow on the under side and under part,
each side of head; dark olive green on back and
wings. Length 4.85 inches. Found on Leihua
Ranch, in Waianae mountains at base of Halea,
April 2, 1903. Adult male, in almost perfect plumage.
Was in full song when shot. Elevation 3500 feet.
Straight bill $\frac{1}{2}$ inch long.

Chlorodrepanis chloris. Palmer. No. 21.
Native name - Amakihi

Color, yellow green. Length 4.5 inches. Found on
Lilihua K. Is., in the Hawaiian Islands, U.S.
1903. Male. Weight 34 gms. Curved bill

Oahu

No. 22. Chlorochrysa lehoni

Native Name - Amakihi.

Color, pale yellow green. Length 4.375 inches

Found on Lilihua Ranch in the Waianae mountains

March 27, 1903. Male. Elevation 8250 feet. Curved bill.

Oahu

No. 23.

Chlorodrepanis lehoris

Native Name - Anakihū

Color, light yellow green. Length 4.4 inches. Found
on Lilihua Ranch in the Waimae mountains, April 1.
1903. Curved bill. Male. Elevation 3300 ft.

Hawaii

No 24. Amatione Sanguinea

Native Name - Auphane

Color, dark scarlet, white on the abdomen and black on the tail and wings. Length 5.25 inches. Found in Kukaian Field, Horner's Ranch, Hamakua, Hawaii. Date collected Dec. 24. 1902. Male. Slightly curved bill, black in color. Elevation 4000 feet.

Amatione Sanguinea

Oahu

No. 25.

Native Name - Apapane

Color, dark red and black. Found on Lihua Ranch
in the Waimai mountains on the island of Oahu, March
31, 1903. Was in full song when shot. Female. Elevation
about 3500 feet.

No. 26. Amatone Sanguinea Oahu
Native Name - Apapane.

Edo, red and black. Found on Kulehua Ranch
in the Waimai Mountains, Oahu, March 29, 1903.
at the base of Maala. Elevation 3500 feet. Male.

Simulium sanguinea

Calif.

No. 27.

Native Name - Apapame

Color, red and black. Length 5.00 inches. Found on
at ridge of Marble Valley, Calif. Elevation about 2500 feet.
Collected March. 14. 1903. Female.

No. 28. Simulium sanguinea. Oahu
Native Name - Apapane.

Eggs, reddish black. Found on Liliha Ranch
in the Waimanalo mountains, March 30. 1903. Male.
Found on 30. Same as female, after worms, etc.
Description complete.

Vestiaria Coccinea

Oahu

No. 29.

Native Name. Iiwi

Color, bright scarlet and black wings. Length 5.95 inches. Long curved bill and of an orange color. Found on Likelua Ranch, in the Waimai mountains, April 3. 1903. Adult male. Found near the base of Maalea, Elevation 3700 feet.

Oahu.

No. 30. Actinoida Bocunia

Native Name - Iwi.

Color, scarlet and black. Length 5.375 inches
Found on Kihuna Ranch in the Kaimai mountains
near the base of Kala, May. 17. 1903. Curved bill.
♂ male. Elevation 3700 ft.

Oahu

No. 31.

no 32

Oahu

Nycticorax nycticorax naevius

Oahu

No. 33.

Native name - *Auku kohili*.

Length

No. 34. *Heterorhynchus Wilsoni*.

Hawaii.

Native Name - *Muhupuu*?

Color, bright yellow green, with dark olive green yellow wings. Curved bill, upper jaw much longer than the lower jaw. Found, below stone fence, Horner's Ranch Paunilo, Hamakua, Hawaii, on July. 15. 1903. Adult male, and in perfect plumage. enlarged, breeding. Elevation > 3000 feet. Length 5.9 inches.

Loxioides bailleui.

Hawaii

No. 35.

Native Name - Palila.

Color, gray, with yellow head and neck, short thick parrot like bill. Length 6.5 inches. Found above stone fence, Horner's Ranch Hamakua Hawaii, July 15/1903. Adult male. Not breeding. Food, the buds and ends of branches of Mamane. Elevation 8,000 feet.

Hawaii

No 36. *Loxioides bailleui*.

Native Name - Palila.

Color, gray, with yellow head and neck. Length
6.6 inches. Male. Found above stone fence about
8,000 feet elevation on Horner's Ranch, Hamakua
Hawaii, July. 15. 1903. In full song. *Loxioides*

Loxioides

Dorioides bairdii.

Hawaii.

No 37

Native Name - Palila

Color, gray with grayish yellow head and yellow neck on under side. Length 6 inches. Found above the stone fence, 8000 feet elevation on Horner's Ranch Hamakua Hawaii, July 15, 1903. Female small ovaries. Food, the young birds and tender branches of the *Mauromela* tree.

No. 38. *Loxioides bailleui*.

Hawaii

Native name. - Palila.

Length 6.7 inches. Adult male found at 8,000
feet elevation on Horner's Ranch Hamakua
Hawaii up in the Mamane trees on July
15. 1903 Took, the tender shoots and buds of
the Mamane trees, etc.

Oreomyza mana

Hawaii

No. 39.

Native Name -

Color, light grayish yellow green, length 4.25 inch.
Found at 7,500 feet elevation on Horner's Ranch,
Hamakua Hawaii. Female, not breeding. White
face. Food, wood worms, found on dead trees, etc.
chiefly wood borers.

No 40. *Oreomyza mana*.

Hawaii

Native name.

Color, light olive green. Length 4.25 inches. Found
below stone fence about 7,500 feet elevation on Homer's
Ranch Hamakua Hawaii, July. 15. 1903. Male.
Straight bill and with a white face. Food, wood
worms, etc.

Oreomyza mana.

Color, pale olive green. Length 4.25 inches. Straight bill. Black face, may be a cross between the chlorochropanis Virens and the *Oreomyza mana*. The bill is black, and much darker than that of the *Oreomyza*. Found below stone fence, about 7,500 feet elevation on Horner's Ranch Hamakua, Hawaii, July 15, 1903. Female.

No. 172. *Oreomyza mana*.

Hawaii.

Color, pale olive green. Length inches
White face. Found on Horner Ranch at 2,000
foot elevation on July 22, 1903. Female, straight
bill.

Chlorodrepanis Virens.

Chlorodrepanis

No. 43.

Native name - Amakihi

Color, bright yellow green. Length, 4.5 inches.
Found in

Elevation about 7000 feet, on Hamner's Ranch
Hamakua Hawaii, July 22, 03. Male.
bill.

No. 44. *Chlorodrepanis Virens* -

Hawaii.

Native Name. - Amakihi

Color, bright yellow green. curved bill. Length 4.75. Found just below stone fence, at 8,000 feet elevation, on Horner's Ranch Hamakua Hawaii, July 15 1903. In full song, adult male, and in full plumage.

Chlorodrepanis Virens.

No. 45.

Native Name - amakibi.

Note

Length 4.5 inches, Wing 2.6 inches, Tail 1.65 inches
Culmen .66 inches, Tarsus .9 inches. Toe .61 inches
Depth of ^{beak} .23 inches. Distance from tip of bill to
the carpal joint of wing 1.5 inches.

Color dark olive greenish yellow on back and
head, on sides lighter and more whitish yellow.
Tail dark olive green. Ires dark or sooty.

Young male, found at 3700 feet elevation on
Homer's Ranch, in coffee field, on Aug. 10. 903
curved bill.

No. 46

Hawaii

Found

Color, pale, dark olive green. Length 4.5, Found
on Morris's Ranch, Hamakua, Hawaii at 7,000
feet elevation on July. 22. 1903. Straight bill
Male. black face = does dark, bill dark

Chlorodrepanis Virens.

Hawaii

No. 4

Native Name - Amakihi

Color, bright yellow green, curved bill. Length 4.6
inches. Found below stone fence at 7,500 foot elevation
on Horner's Ranch on July 15, 1903. Male.

No. 48. *Oreomyza mana*Note

Length 4.40 inches, Wing 2.60 inches, Tail 1.66 inches
Tarsus .91 inches, Toe .62 inches, Culmen .53 inches
Depth of beak .22 inches, Distance from tip of beak
to the wing (carpal joint) 1.625? inches.

Color, dark olive green on crest and back, wings
darker and with some black, tail similar,
on under lighter, and more whitish. Dors
dark, almost black, bill dark. Old male, Found
at > 500 foot elevation on Horner's Ranch, Mauna
Kea Hawaii in the Mamane's on Aug. 18.
1903. Almost in full plumage.

Loxioides bailleui.

Hawaiian

No. 49.

Native name - Palila

Cela, gray with yellow head. Length 6.8 inches.
Found in Maunaloa field on Maunaloa Road at
6600 foot elevation on July 22, 1903. Female.

50. *Phaeornis obscura*.

Hawaii

Native Name - Oman

Length 7.4 inches, Wing 4.10 inches, Tail 3.10 inches
Culmen .635 inches, Tarsus 1.45 inches, Toe .90 inches
Depth of beak .225 inches, Distance from tip of
beak to wing (carpal joint) 2.00 inches.
Color of beak blue black, width of same .40 inches.
Found at upper edge of coffee field at 3900
foot elevation on Horner's Ranch, Hamakua
Hawaii on Aug. 10. 1903. Adult male. Color

Vestiria Coccinea, Hawaii No. 51.
Native Name - Iiwi

Color, bright scarlet. Length 6 inches. Found
at 4000 foot elevation, at upper edge of coffee
field in the corn field on Horner's Ranch
Maunakua Hawaii, July 24, 1903. Food, gum
catapillars, etc. at this time of the year.
Mate, possible a young one. Long curved
bill. Not breeding.

52. No. *Vestiaria Coccinea*, Hawaii
Native Name. - Iwi

Color, yellow green with scarlet splash on
the head;

Length 5.7 inches. Found
at lower end of corn field at 4000 foot
elevation on Harris Ranch Hamakua
Hawaii on July 24. 1903 Young female,
this year's hatched chick. rounded bill.

Vestiaria Coccinea. Hawaii No. 53.
Native Name - Iiwi

Color, dark yellow olive green, with black spots on back and neck, also sprinkled with scarlet feathers, black wings and tail. Length 5.8 inches. Curved bill. Found in the N part of the lower end of Cornfield Horner's Ranch at 4000 elevation on July 24, 1903. Young Male, about 10 to 14 months old. Food: Tent caterpillars, army worms, honey insects etc.

No 54 *Amatione Sanguinea* Hawaii
Native name - Ahapane.

5
Color.

Length 5 inches, curved bill. Found
in NW part of the lower end of Cornfield,
Homer's Ranch, Hamakua Hawaii at 4000
foot elevation - on July 24, 1903. Young
male, about 10 to 14 months old.

#54. Color, blackish gray - the feathers tipped
with brown on back, on breast grayish
white, wings black, the bronze tipped,
bill black. Length 5.1 inch. Young
female. Found in N.W. corner of the lower part
of Cornfield at 4000 foot elevation on Homer's Ranch
Hamakua Hawaii, on July 24, 1903. Exchanged
with Mr. S. H. Miller. Aug. 15, 1903

Amatione sanguinea. Hawaii

No. 537

Native name - Apapane

Color, blackish gray on the back, splashed with reddish brown spots; on breast grayish white, wings and tail black. Length 5 inches, curved bill. Young male.

No 56. *Phaethontidae lepturus*

Hawaii

Bowen birds

Color, black and white. Length 24.6 inches.

Found near Kuckacan hill Aug. 1. 1903.

Female. Webbed. Belong^{to} the Ika bird family.

Elevation about 200 feet. Tail composed of
long white feathers with a black ribbon
down the center.

Phaethontidae lepturus

Hawaii

No. 57

Bowser birds.

Color, black and white. length 20.25 inches
Found near Kukaian Mill on Aug. 1. 1903
Female, ovaries enlarged, probable breeding,
some of the ovaries greatly enlarged than others.
Given to Olive R. Horner.

No 58. *Stimotone sanguinea* Hawaii
Native name - Apapane

Length 5.30, Wing 2.90 inches, Tail 2.25 inches
Culmen .63 inches, Tarsus .99 inches, Toe .70
inches, Depth of bill at .22 inches, Distance
from tip of bill to wing (carpal joint) 1.53 inches.
Color of legs blue black, feet with reddish pale yellow
Found on lowland at 4000 foot elevation on
Horn's Ranch, Hamakua Hawaii. Young
male. Took, no use etc.

Himatione sanguinea. Hawaii No 59

Native Name. *Apaume*.

Length 4.75 inches, Wing 2.62 inches, Tail 1.90 inches
Culmen .60 inches, Tarsus .90 inches, Toe .67 inches
Depth of beak .19 inches, Distance from tip of beak
to wing (carpal joint) 1.375 inches.

No. 60. *Vestiaria coccinea*

Hawaii

Native Name - Iiwi

Length 5.95 inches, Wing 3.10 inches, Tail 2.05 inches
Culmen 1.05 inches, Tarsus 1.05 inches, Toe .70 inches
Depth of beak .28 inches, Distance from tip of
beak to wing (carpal joint) 2.30 inches.

Color of bill yellow carmine. Found in
N. W part of lower end of Cornfield. Horner's
Ranch Hamakua Hawaii, at 4000 foot ele-
vation on Aug. 10. 1903. Young male, shot
while feeding on catapillars which eat the
leaves of the Ohia tree. Exchanged with
Mr. L. H. Miller, Aug. 16. 1903.

Chasiempis sandvicensis

Hawaii

No. 61

Native name - Elipao

Length 6.2 inches, Wing 2.90 inches, Tail 2.6 inches
Culmen .52 inches, Tarsus 1.10 inches, Toe .60 inches
Depth of beak .19 inches, Distance from tip of
beak to wing (carpal joint) 2.00 inches.
Color of legs, slate. Found in #3 field at 3200 foot
elevation on Horner's Ranch, Hamakua Hawaii
on Aug. 10. 1903. Adult male, in full plumage,
though badly worn

X

No. 62. *Zenaidura macroura*

Hawaii

Length 4.40 inches, Wing 2.15 inches, Tail
1.52 inches, Tarsus .55 inches, Toe .62 inches
Depth of beak .33 inches, Culmen .45 inches
Distance from tip of beak to wing (carpal joint) 1.25 in.
Found at Kukui, at 50 feet elevation.

Phaethon lepturus

Hawaii

20.63

White Tailed Tropic Bird.

Length 22.25 inches, Wing 10.10 inches, Tail 11.75 inches
Tarsus .90 inches, Toe 1.50 inches, Culmen 1.90 ..
Depth of beak .75 inches. Distance from tip of
beak to wing (carpal joint) 5.20 inches.
Male, food small fish. Black and white, with
a salmon tinge. Found near Kukanani Mill
Honolulu Hawaii on Aug. 13. 1903

No 64 *Chasiempis sandvicensis* Hawaii

Native Name. Elipao

Length 5.9 inches. Wing 2.75 inches, Tail 2.4 inches
Tarsus .95 inches, Toe .66 inches, Culmen .43 "
Depth of beak .18 inches, Distance from tip of
beak to wing (carpal joint) 1.75 inches.

Found in #3 field about 3000 foot elevation
on Horner's Ranch Hamakua Hawaii on
Aug. 16. 1903 I think it is a young bird.
Female. Color: X

Heterorhynchus wilsoni.

Hawaii

77.63

Length 5.90 inches, Wing 3.20 inches, Tail 1.40 inches
Tarsus 1.03 inches, Toe .82 inches, Culmen .95 inches
Depth of beak .30 inches, Distance from tip of beak
to the wing (carpal joint) 2.00 inches, Hind
toe .79 inches, Wing falls short of tail by .69 inches.
Lower mandible .65 inches. Color: on the ^{throat} ~~throat~~
violet, ^{which} gradually changes to green on the
sides of abdomen. ~~on the sides of abdomen~~
crest ~~on the head~~ shading ~~into~~ green yellow
on back, wings blackish tinged with green
tail similar, under tail coverts light yellow.
Feet slate dark blue, beak blue black; under side of feet
yellowish white. Dors, dark, almost black. Adult
male, and in full plumage. Was in full song
when shot. Found on Hornis Ranch at 7,500 foot
elevation on Aug. 18. 1903 up in the Mamane's above
the Wianua road.

No. 66 *Oreomyza mana*

Hawaii

Length 4.52 inches, Wing 2.74 inches, Tail 1.69 inches
Tarsus .84 inches, Toe .70 inches, Culmen .53 "
Depth of beak .21 inches, Distance from tip of beak
to the wing (carpal joint) 1.25? inches.

Adult male, found on Harris's Ranch at 7,600
foot elevation on Aug. 18, 1903 Food, worms and
eggs of moths, etc. live up in the *Maunawili*
trees. Color.

Oreomyza mana

Hawaii

7067

Length 4.60 inches, Wing 2.73 inches, Tail 1.68 inches
Tarsus .85? inches, Toe .625 inches, Culmen .55 inches
Depth of beak .20 inches, Distance from tip of beak
to the wing (carpal joint) 1.57? inches, Adult
female, found at 5,600 foot elevation on Horns
Ranch Hamakua Hawaii on Aug. 18. 1903

No. 68 *Oreomyza mana*

Hawaii

Length 4.51 inches, Wing 2.60 inches, Tail 1.59 inches
Tarsus .90 inches, Toe .69 inches, Culmen .56 "
Depth of beak .22 inches, Distance from tip of beak
to the wing (carpal joint) 1.50? inches.

Female. Found at 7500 foot elevation on Horner's
Ranch on Aug. 18. 1903 up among the Maunamés

Doxops coccinea

Hawaii

7/16/03

Native name - Akepiá

Length 4.40 inches, Wing 2.41 inches, Tail 1.81 inches
Tarsus .84 inches, Toe .65 inches, Culmen .42 inches
Depth of beak .19 inches, Distance from tip of beak
to the wing (carpal joint) 1.35 inches. Adult
male, just moulting, so is not in full plumage.
Found above 7,500 feet elevation, and west by north
of Pekihi on Horner's Ranch, Hamakua Hawaii on Aug.
23, 1903. Feeding in the Mamane tree.

Seen again on Aug. 24, about 2:30 P.M.
at the edge of the same forest.

No. 70 *Oreomyza mana*

Hawaii

Length 4.62 inches, Wing 2.75 inches, Tail inches
Tarsus inches, Toe inches, Culmen .50 ..
Depth of beak inches. Distance from tip
of beak to the wing (carpal joint) — inches
Female, found at 7,500 foot elevation on Horner's
Ranch Hamakua Hawaii in the Mamane
trees on Aug. 23. 1903

Chlorodrepanis virens

Hawaii

2071

Native name - Amakihi

Length 4.45 inches, Wing 2.65 inches, Tail 1.64 inches
Tarsus .95 inches, Toe .65 inches, Culmen .57 inches
Depth of beak .21 inches, Distance from tip of beak
to the wing (carpal joint) 1.50 inches. Ad. female
but just moulting now. Found at > 800 foot elevation
on Horner's Ranch Hamakua Hawaii up among
the Mamane trees on Aug. 23. 1903.

No. 72. *Heterorhynchus wilsoni*

Hawaii

Length 5.85 inches, Wing 3.20 inches, Tail 1.70 inches
Tarsus .95 inches, Toe .89 inches, Culmen 1.02 inches
Depth of beak .28 inches. Distance from tip of
beak to the wing (carpal joint) 2.20? inches.
Bird Toe, .70 inches, down mandible .70 inches
Adult male, found at 5500 foot elevation
of Honu's Ranch Hamakua Hawaii up
in the Koa's below Waima road, on Aug
26. 1903. Food, worms, etc. Testicles enlarged.

Doxioides bailloni,

Hawaii

7073

Native Name Palila

Length 6.90 inches, Wing 3.65 inches, Tail 2.61 in.
Tarsus 1.00 inches, Toe .90 inches, Culmen .50 inches
Depth of beak .40 inches. [Distance from tip of
beak to the wing (carpal joint) — inches.
(not used)] Distance from tip of wing to tip
of tail about 1.50 inches. Adult female, found
at 7,800 feet elevation up among the Mamane
trees on Horn's Ranch, Hamakua Hawaii
on Aug. 26, 1903. Moulting

No. 74 *Oreomyza mana*

Hawaii

Length 4.88 inches, Wing 2.72 inches, Tail 1.82 inches, Tarsus .81 inches, Toe .68 inches, Culmen .50 inches, Depth of beak .22 inches, [Distance from tip of beak to the wing (carpal joint) — inches (not used)]. Distance from tip of wing to tip of tail about 1.05 inches. Adult female, found at 7,500 foot elevation on Horner's Ranch Hamakua Hawaii up among the Mamane trees on Aug. 26, 1963.

Ononyza mana

Hawaii.

2576

Length 4.58 inches, Wing 2.61 inches, Tail 1.73 inches
Tarsus .85 inches, Toe .70 inches, Culmen .51 inches
Depth of beak .22 inches [Distance from tip of
beak to the wing (carpal joint) — inches.
(not used)] Distance from tip of wing to tip of
tail about .82 inches. Female.

No. 76 *Oreomyza mana*

Hawaii

Length 4.6 inches, Wings 2.65 inches, Tail 1.62 inches
Tarsus .72 inches, Toe .77 inches, Culmen .645 inches,
Depth of beak .205 inches. Distance from tip of wings
to tip of tail about .80 inches. Adult male
found at 7,500 foot elevation on Hornum's
Ranch on Aug. 26, 1903.

Chasiempis sandvicensis Hawaii

24-77

Native Name - Ekepaio.

Length 6.20 inches, Wing 2.90 inches, Tail 2.65 in.
Tarsus 1.00 inches, Toe .67 inches, Culmen .51 inches
Depth of beak .18 inches, Distance from tip of wing
to tip of tail, about 1.75 inches. ~~A~~ Male, found
in lower part of cornfield at 4,100 foot elevation
on Horner Ranch, Hamakua Hawaii on
Aug. 30. 1903. Is a new species or a young
bird. Male

Left at Museum on Oct. 12, 1903

No 78 *Chasiempis sandvicensis* Hawaii

Native Name - Elipao.

Length 5.60 inches, Wing 2.60 inches, Tail 2.34 inches
Tarsus .90 inches, Toe .60 inches, Culmen .52 "
Depth of beak .18 inches, Distance from tip of
wing to the tip of tail about 1.25 inches.

Female, found in lower part of cornfield
at 4,100 foot elevation on Horner's Ranch,
Maunakea Hawaii, on Aug. 30. 1903

Is a new species & a young bird.

Sept 1 - 1903 on Oct - 12 03

Chasiempis sandwicensis.

Hawaii

2-19

Native name, -Elepaio.

Length 6.40 inches, Wing 3.00 inches, Tail 2.80 inches, Tarsus .99 inches, Toe .75 inches, Culmen .52 inches, Depth of beak .195 inches, Distance from tip of wing to the tip of the tail about 7.50 inches. Adult male, found in lower part of cornfield at 4,100 foot elevation on Horner's Ranch, Hamakua Hawaii on Aug. 30. 1903 X

No 807

Hawaiian Islands

Hawaii

Plover.

Length 10.05 inches, Wing 7.00, Tail 2.60, Tarsus
1.80, Toe 1.43, Culmen .99, Depth of beak .45 in.

Distance from tip of wing to tip of tail
about $\frac{1}{2}$ inches, the tail falls short of the
wing tips by that amount. *Female*
Sept 2, 1903 on Morris Ranch.

doxioides bairdii

Hawaii

21.81

Native Name - Palila

Length 6.50, Wing 3.55, Tail 2.45, Tarsus 1.05, Toe .83, Culmen .51, Depth of beak .40, Distance from tip of wing to tip of tail about 1.50 inches.

Male, moulting; Found at 8,000 feet elevation on Horner's Ranch, just below the stone fence; Hamakua, Hawaii on Sept. 2, 1903. Feeding off of the Mamane blossoms. Mamane's in flower

No. 83. *Vestiaria coccinea*.

Hawaii

Native Name - Iiwi

Length 5.45, Wing 2.80, Tail 1.95, Tarsus .95,
Toe .70, Culmen 1.00, Depth of beak .28,
Distance from tip of wing to the tip of the
tail, about .875 inches. Young female,
found up among the Mannamés on both
sides of the stone fence and in the sand,
elevation about 8,000 feet, Horner's Ranch
Hamakua Hawaii, on Sept. 2. 1903

Vestiaria coccinea.

Hawaii

11.13

Native name - Iiwi.

Length 6.05, Wing 3.20, Tail 2.08, Tarsus 1.0, Toe .75, Culmen 1.125 Depth of beak .30, Distance from tip of wing to tip of tail, about .875 inches.

Young male, found at 8,000 feet elevation up among the Mamane trees and on both sides of the stone fence, on Horner's Ranch Hamakua Hawaii, on Sept. 2, 1903.

No. 34

Vestiaria coccinea

Hawaii

Native name - Iwi.

Length 5.83, Wing, 3.20; Tail 2.125, Tarsus 1.00,
Toe .74, Culmen 1.10, Depth of beak .28, distance
from tip of wing to tip of tail, about $\frac{7}{8}$ inches.

Female, found up among the Mamane
trees on both sides of the stone fence, at 8,000 foot
elevation in the sand fields near Pokihi, on
Honu's Ranch, Hamakua Hawaii on Sept

2, 1903.

Vestiaria coccinea.

Hawaii

Native name - Iwi.

Length 5.80, Wing 3.05, Tail 1.95, Tarsus 1.00, Toe .78
Culmen 1.04, Depth of beak .25, Distance from
tip of the wing to tip of tail, about .98 inches.
Male, moulting. Found at 8,000 feet elevation
on both sides of stone fence, on Horner's
Ranch, Hamakua Hawaii on Sept. 2. 1903

No. 36 *Vestiaria coccinea*

Hawaii

Native Name - Iwi

Length 6.10, Wing 3.10, Tail 2.20, Tarsus 1.00
Toe .72, Culmen 1.09, Depth of beak .26, Dis-
tance from tip of wing to tip of tail about 1.10
inches. Male, moulting. Found on Homer
Ranch, on both sides of stone fence, 8,000 feet
elevation on Sept. 2, 1903.

Chlorodrepanis virens.

Hawaii

2-97

Native Name - Amakihi

Length 4.41, Wing 2.625, Tail 1.63, Tarsus .84, Toe .59, Culmen .54, Depth of beak .19, Distance from tip of wing to tip of tail, about .75 inches
Male ^{immature} young bird Found on Hamakua at 8,000 feet elevation - on Sept. 2, 1903.

No. 89 *Chlorodrepanis virens*.

Hawaii

Native name - Amakihi.

Length 4.42, Wing 2.60; Tail 1.50, Tarsus .90, Toe .63, Culmen .55, Depth of beak .20, Distance from tip of wing to tip of tail, about .70 inches. Found on Horns' Ranch at 8,000 feet elevation on Sept. 2, 1903. May be a young bird.

Chlorodrepanis virens.

Hawaii

24-37

Native name - Anakihi.

Length 4.52, Wing 2.62, Tail 1.62, Tarsus .90, Toe .69, Culmen .58, Depth of beak .21, Distance from tip of wing to tip of tail, about .70 inches.

Male, may be a young bird. Found on Horner's Ranch, Hamakua, Hawaii, at 8,000 feet elevation on ~~Horner's~~ Sept. 2, 1903.

No. 90 *Chlorodrepanis virens*. Hawaii

Native name - Amakihi.

Length 4.40, Wing 2.50, Tail 1.60, Tarsus .89, Toe .63, Culmen .53, Depth of beak .22, Distance from tip of wing to tip of tail, about .75 inches.
Female, Found at 8,000 feet elevation on Hume's Ranch, ad on Sept. 2, 1903.

Hemignathus obscurus, Hawaii

24-91

Native Name - Akialoa

Length 6.20, Wing 2.90, Tail 1.70, Tarsus .92, Toe .80
Culmen 1.45, Depth of beak .23, Distance from
tip of wing to tip of tail, about .70 inches.

Width of beak .23 inches. Upper culmen $\frac{2}{100}$ longer
than the lower mandible. Female, found
about half way through #3 field along road to
Homer's Ranch house on Sept. 14, 1903 among
the Ohia's. These birds have just made their
appearance within the last week. Sept. 7, 1903.
at about 3,250 foot elevation.

No. 92. *Hemignathus obscurus*. Hawaii

Native name - *Akialoa*.

Length 6.00, Wing 3.27, Tail 1.83, Tarsus .93, Toe .86
Culmen 1.60, Depth of beak .26, Distance from
the tip of wings to the tip of tail, about .70 inches.
Width of beak .22 inches. Adult male
found on Horner's Ranch in #3 field
on Sept. 8. 1903 at 3,500 foot elevation.

Hemignathus obscurus. Hornii 2-93

Native name - Ahialoa

Length 4.10, Wing 3.20, Tail 1.75, Tarsus 1.00, Toe .82
Culmen 1.625, Depth of beak .25, Distance from the
tip of the wing to the tip of the tail, about .52 inches.
Width of beak .24 inches. Adult male moulted.
Found on Horn's Ranch in #3 field at
about 3,600 feet elevation on Aug 6. 8. 1900.

914 *Chlorodrepanis virens*,

Hawaii

Native name - Amakihi.

Length 4.60, Wing 2.70, Tail 1.71, Tarsus .96, Toe .68,
Culmen .53, Depth of beak .195, Distance from
the tip of the wings to tip of tail, about .75 inches
Width of beak $\frac{19}{100}$ inches. Male, found
in #3 field on Horner's Ranch, Hamakua
Hawaii, on Sept. 8, 1908.

Chlorodrepanis virens,

Hawaii.

2-95

Native Name - Amakihi

Length 4.52, Wing 2.50, Tail 1.47, Tarsus .89, Toe .61
Culmen .53, Depth of beak .21, Distance from the
tip of the wings to the tip of the tail, about .75 inches
Width of beak .215 inches Adult female found
on Horner's Ranch in #3 field in Sept 8, 1903.

Nov. 26 *Chasiempis sandwicensis*. Hawaii

Native Name - Elepaio.

Length 5.55, Wing 2.80, Tail 2.375, Tarsus .98, Toe .68
Culmen .56, Depth of beak .18, distance from the
tip of the wings to the tip of the tail, about 1.40 inches
Male, found in #3 field on Horns Ranch
Hamakua Hawaii in Sept., 1903. X

Chasiempis sandwichensis. Hawaii

2492

Native name, Elepaio.

Length 5.80, Wing 2.70, Tail 2.55, Tarsus .95, Toe .63,
Culmen .54, Depth of beak .17, Distance from
tip of the wing to the tip of the tail, about 1.50 inches.
Female, found in #3 nest on Sonnie's Ranch
Hanalei Hawaii on Sept. 8, 1905. x

21098 *Phaeornis obscura*.

Hawaii

Native Name - O'mau

Length 7.20, Wing 4.05, Tail 3.03, Tarsus 1.45, Toe 1.05
Culmen .68, Depth of beak .22, distance from the
tips of the wings to the tip of the tail, about 11.65 inches.
Width of beak .36 inches. Adult Male, found
in #7 field Horner's Ranch Hamakua
Hawaii Sept. 8. 1903.

Length Wing Tail Tarsus Toe
 Culmen , Depth of beak , Distance from tip
 of wings to the tip of the tail, about inches.

Length , Wing , Tail , Tarsus , Toe
culmen , Depth of beak , Distance from
tips of wings to the tip of the tail, about inches.

Length , Wing , Tail , Tarsus , Toe ,
 Culmen , Depth of beak , Distance from the
 tips of the wings to the tip of the tail, about inches.

Length , Wing , Tail , Tarsus , Toe ,
 Culmen , Depth of beak , Distance from
 the tip of wings to the tip of tail, about inches.

length Wing Tail Tarsus Toe
Culmen , depth of beak , distance ,
the tips of wing - to tip of tail, about inches.
Width of beak .

Length	Wing	Tail	Alar expanse	Toe
culmen		Length of		
beak		Distance from wing tip to tip of tail		
about		inches.		

Length, Wing, Tail, Tarsus
Toe, Culmen, Width of beak, Depth
of beak, Distance from wing tips to tip of tail
inches.

No. 134.

W. J. Wirt.
Lyndonville
Orleans Co.

N. Y.
U. S. A

No. 139.

Dec. 25. 1903

Prof. George H. Miller,
Dear Sir

I saw your name
in the "Condor" and I write to ask if you
would exchange some Hawaiian Bird skins
for American Bird skins or sets of eggs. I
would like to get one or two of each of the smaller
species up to size of small Hawk, etc. If you
care to exchange, send a list with price for
bird and I will send list of what I can
offer, and if you do not care to exchange with
you please hand this letter to some
Collector. I wrote to the Bishop Museum
but they were not in want of any
American skins.

Very Truly yours
W. J. Wirt.

Orleans Co.

Lyndonville N. Y.

List of Birds Sent to Mr. Miller

- No. 60. Young male, *Vestiaria coccinea*, Aug 15. 03
" 54. " female. *Himatione sanguinea*. " " "
" 92. Adult male *Hemignathus* O.

